

FIG. 1

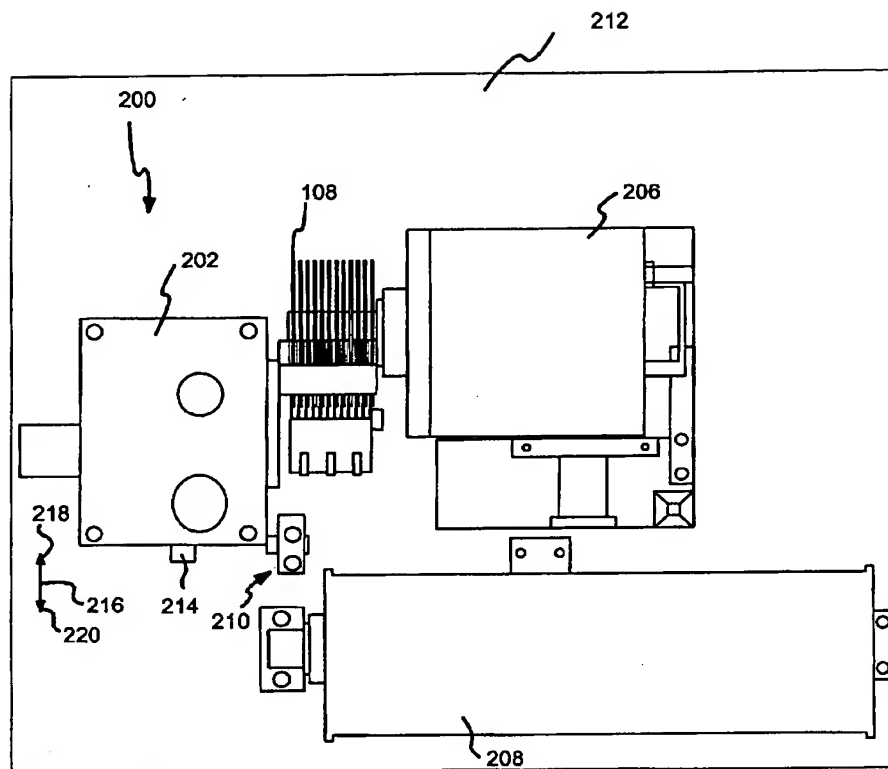


FIG. 2

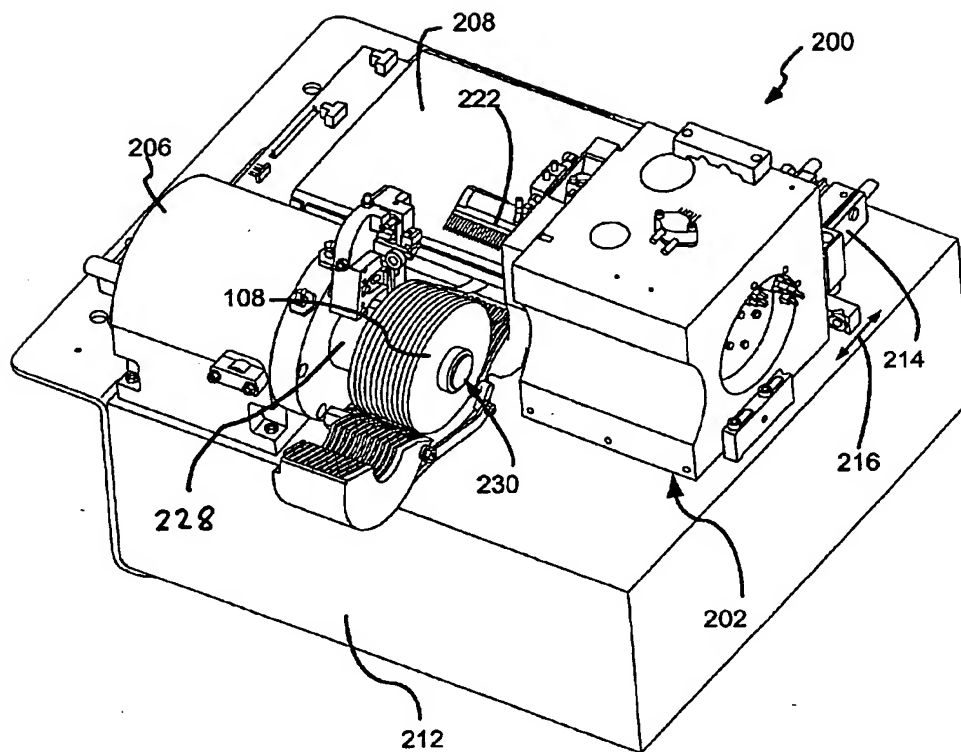


FIG. 3

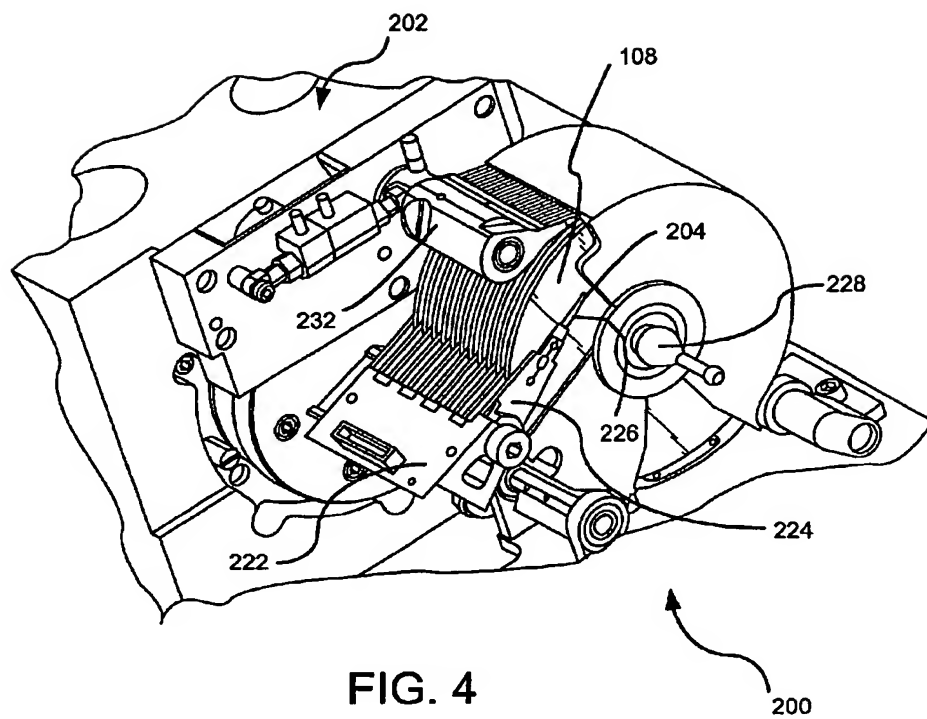
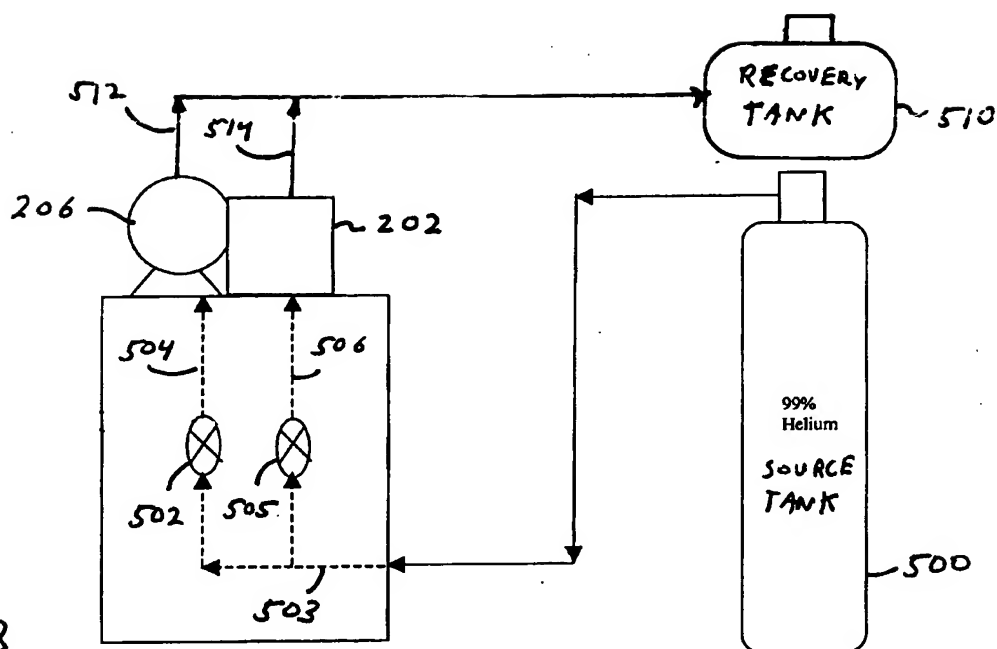
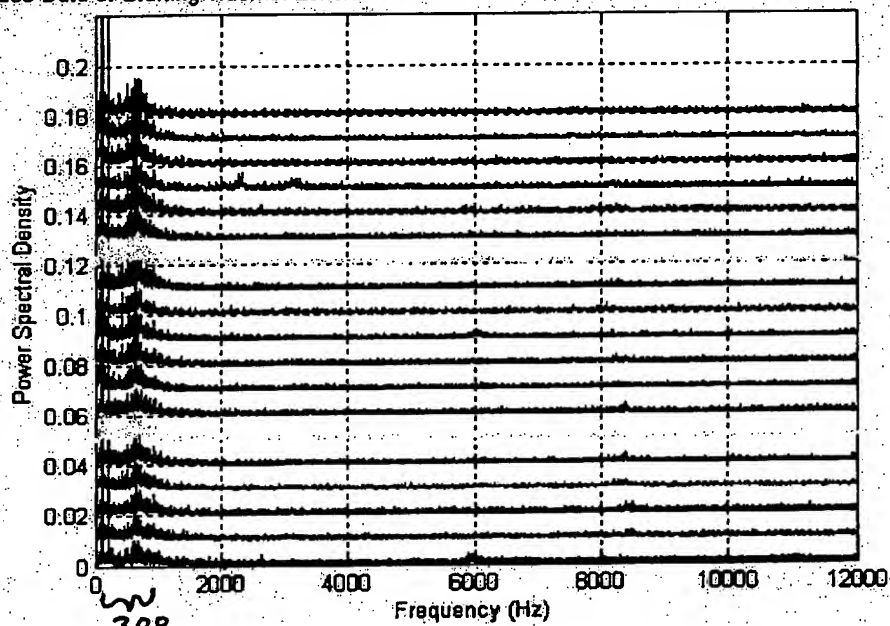


FIG. 18

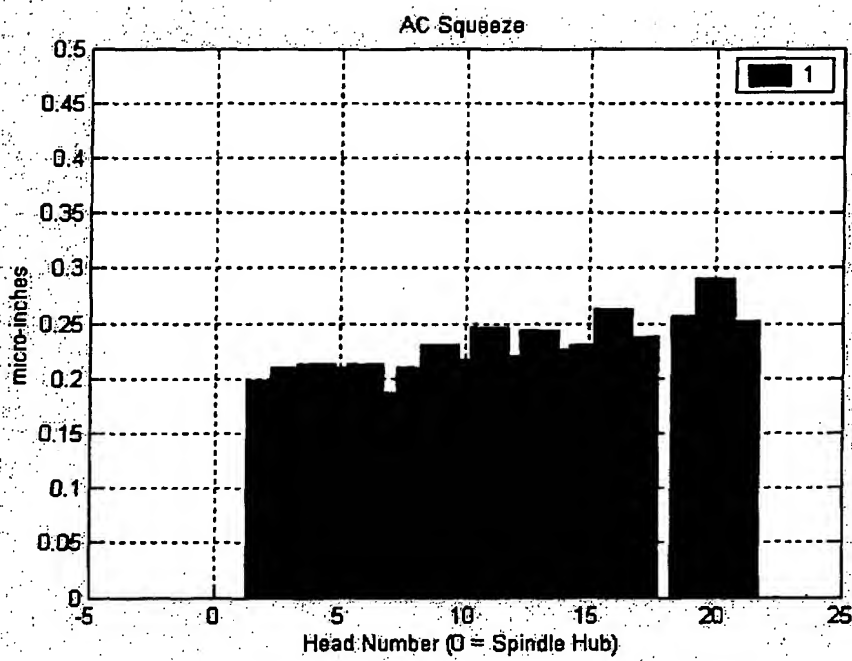


Pass Data at Starting Track or Zone # 1 Heads 2 3 4 5 6 7 8 9 10 11 12 13 14 15



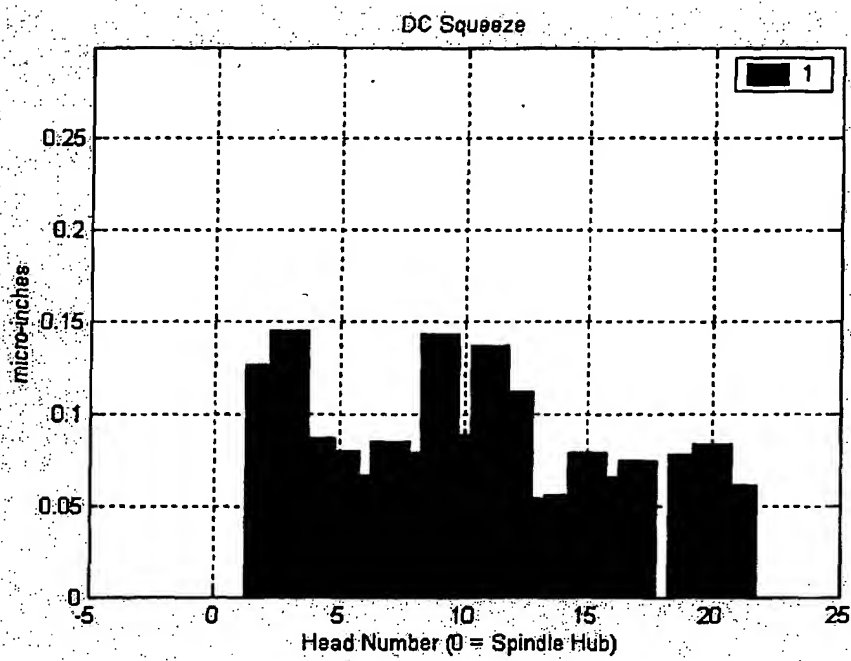
FFT (Air in Spindle air bearing & Air in Actuator bearing)

FIG. 5



AC Squeeze (Air in Spindle air bearing & Air in Actuator bearing)

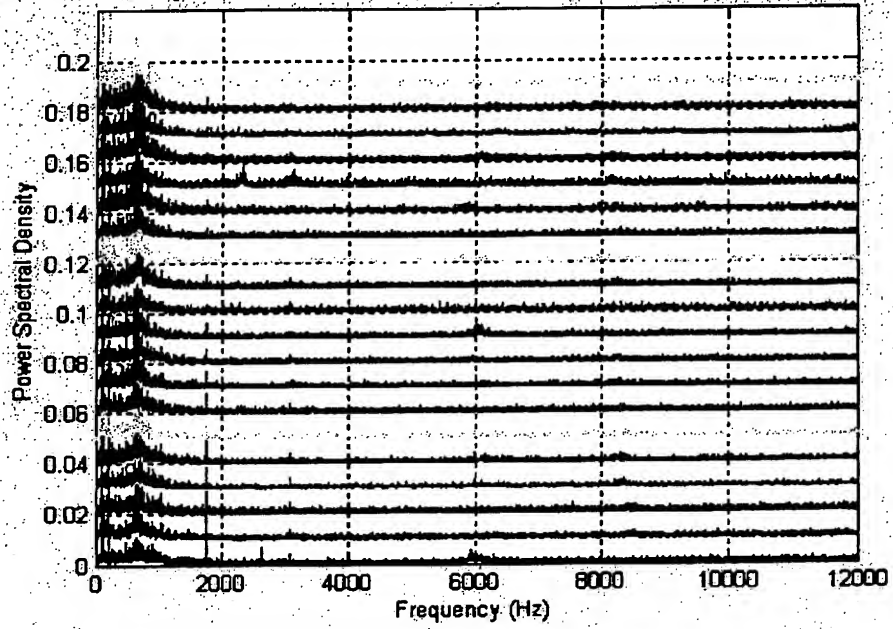
FIG. 6



DC squeeze (Air in Spindle air bearing & Air in Actuator bearing)

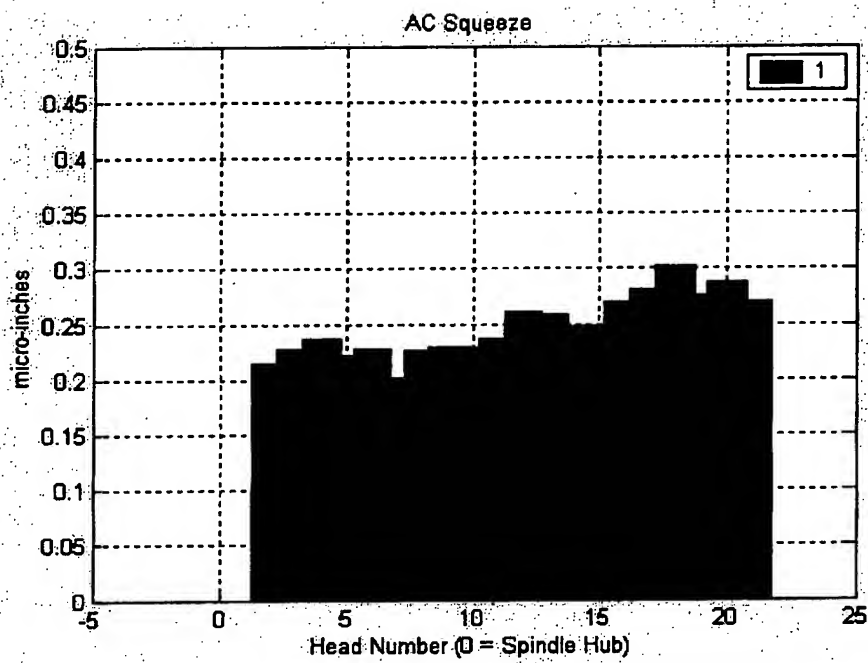
FIG. 7

Pass Data at Starting Track or Zone # 1 Heads 2 3 4 5 6 7 8 9 10 11 12 13 14 15



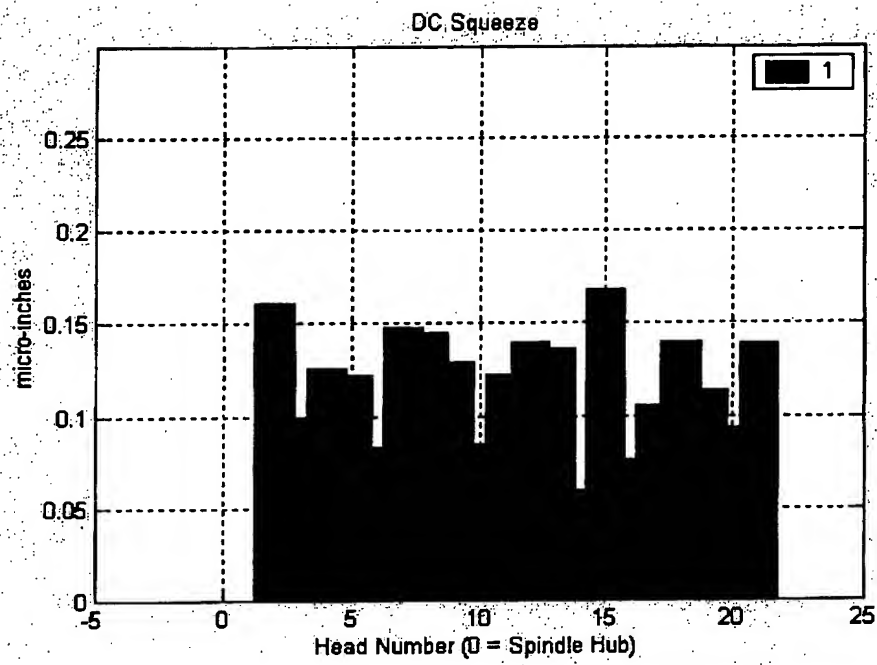
FFT (Air in Spindle air bearing & Air in Actuator bearing)

FIG. 8



AC Squeeze (Air in Spindle air bearing & Air in Actuator bearing)

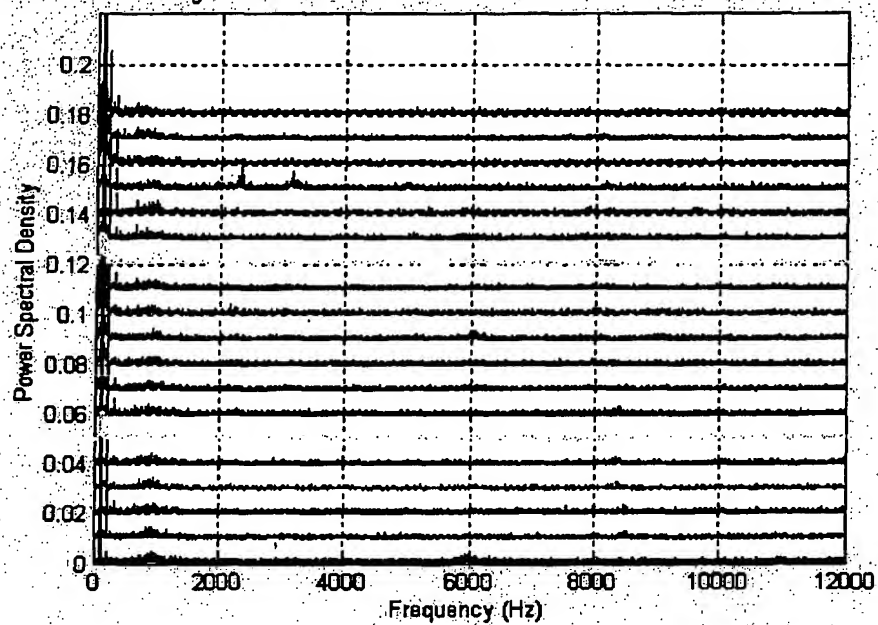
FIG. 9



DC Squeeze (Air in Spindle air bearing & Air in Actuator bearing)

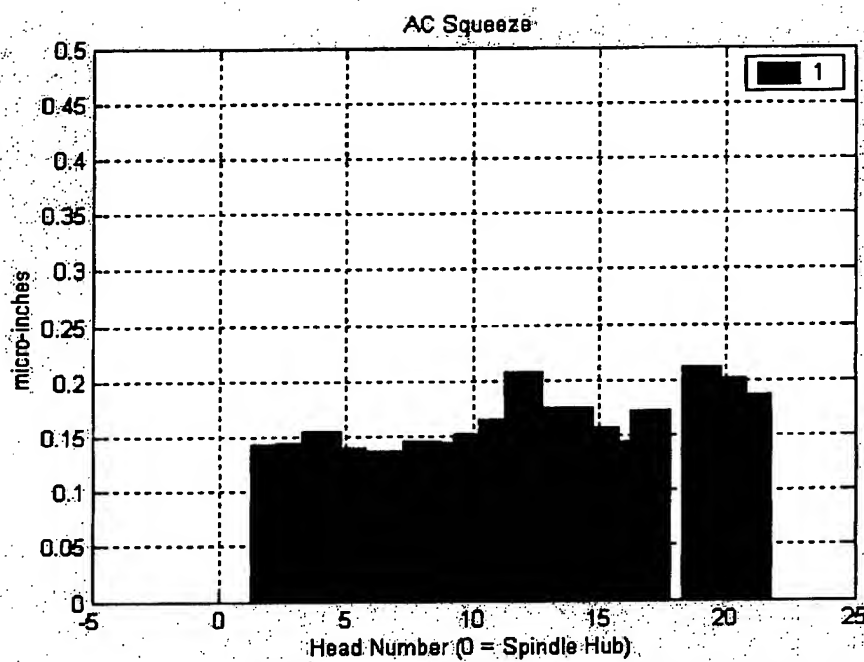
FIG. 10

Pass Data at Starting Track or Zone # 1 Heads 2 3 4 5 6 7 8 9 10 11 12 13 14 15



FFT (Helium in Spindle air bearing & Helium in Actuator bearing)

FIG. 11



AC Squeeze (Helium in Spindle air bearing & Helium in Actuator bearing)

FIG. 12

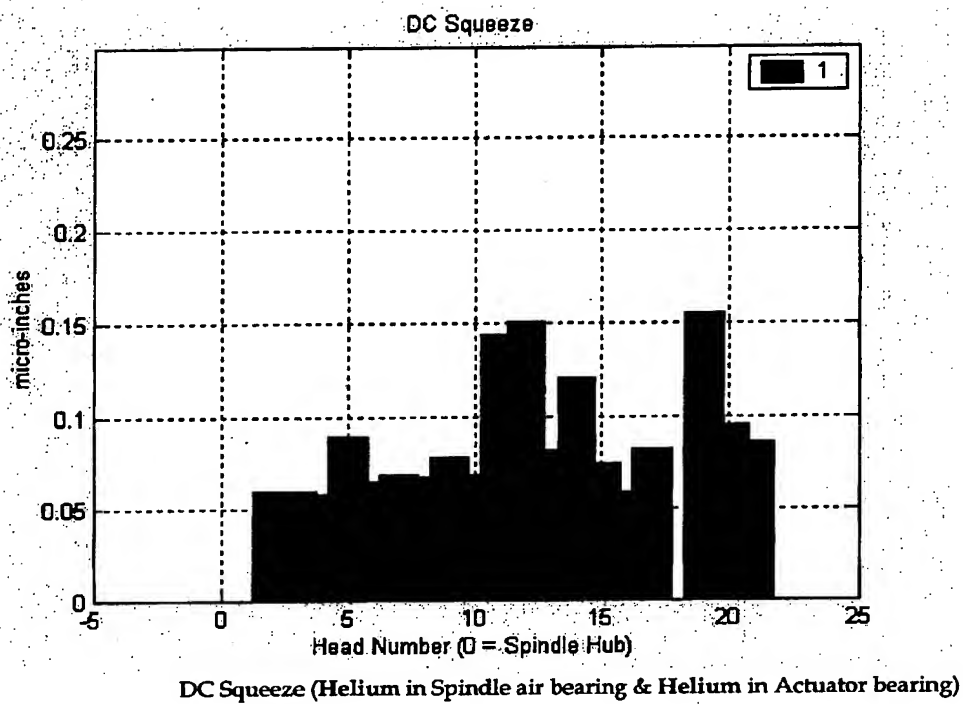
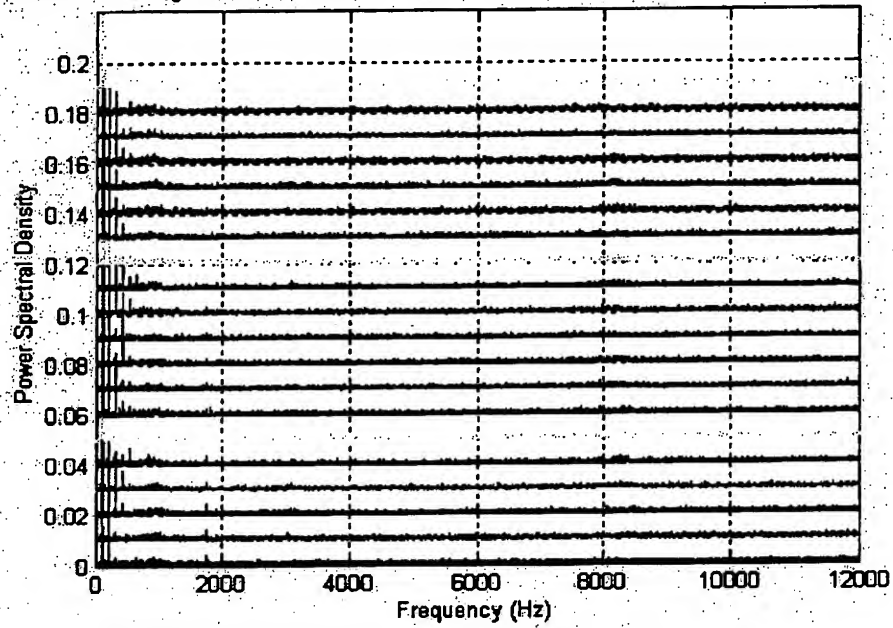


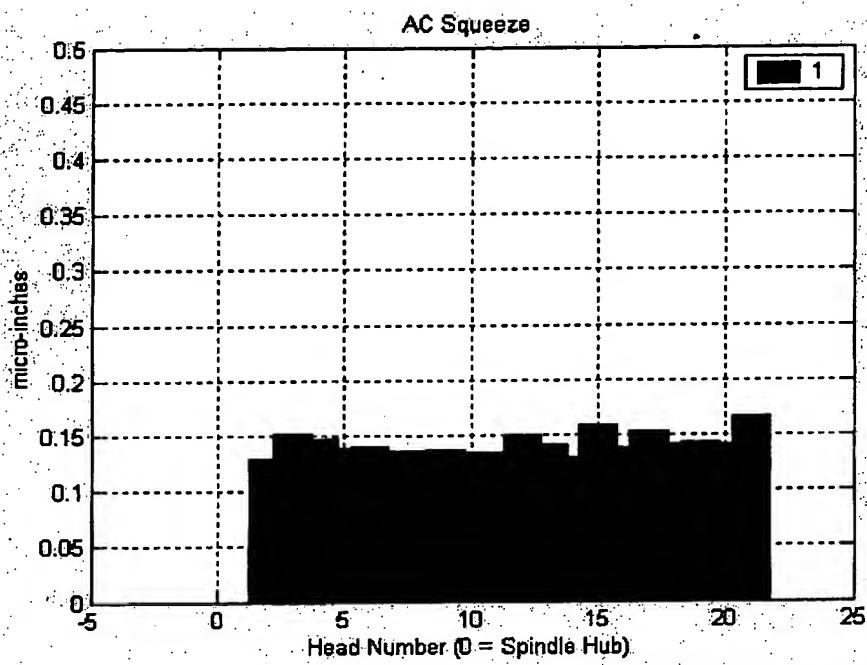
FIG. 13

Pass Data at Starting Track or Zone # 1 Heads 2 3 4 5 6 7 8 9 10 11 12 13 14 15



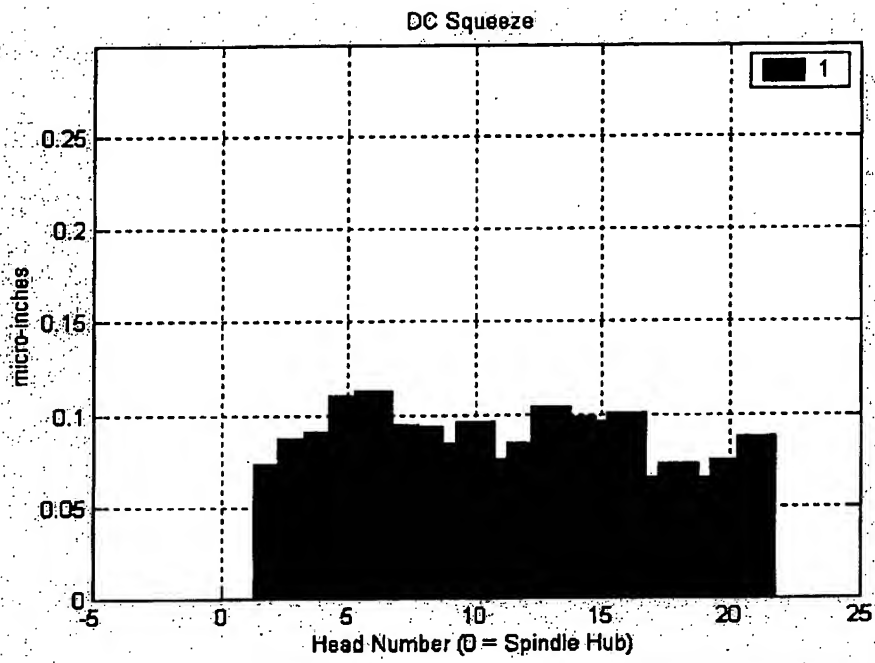
FFT (Helium in Spindle air bearing & Helium in Actuator bearing)

FIG. 14



AC Squeeze (Helium in Spindle air bearing & Helium in Actuator bearing)

FIG. 15



DC Squeeze (Helium in Spindle air bearing & Helium in Actuator bearing)

FIG. 16

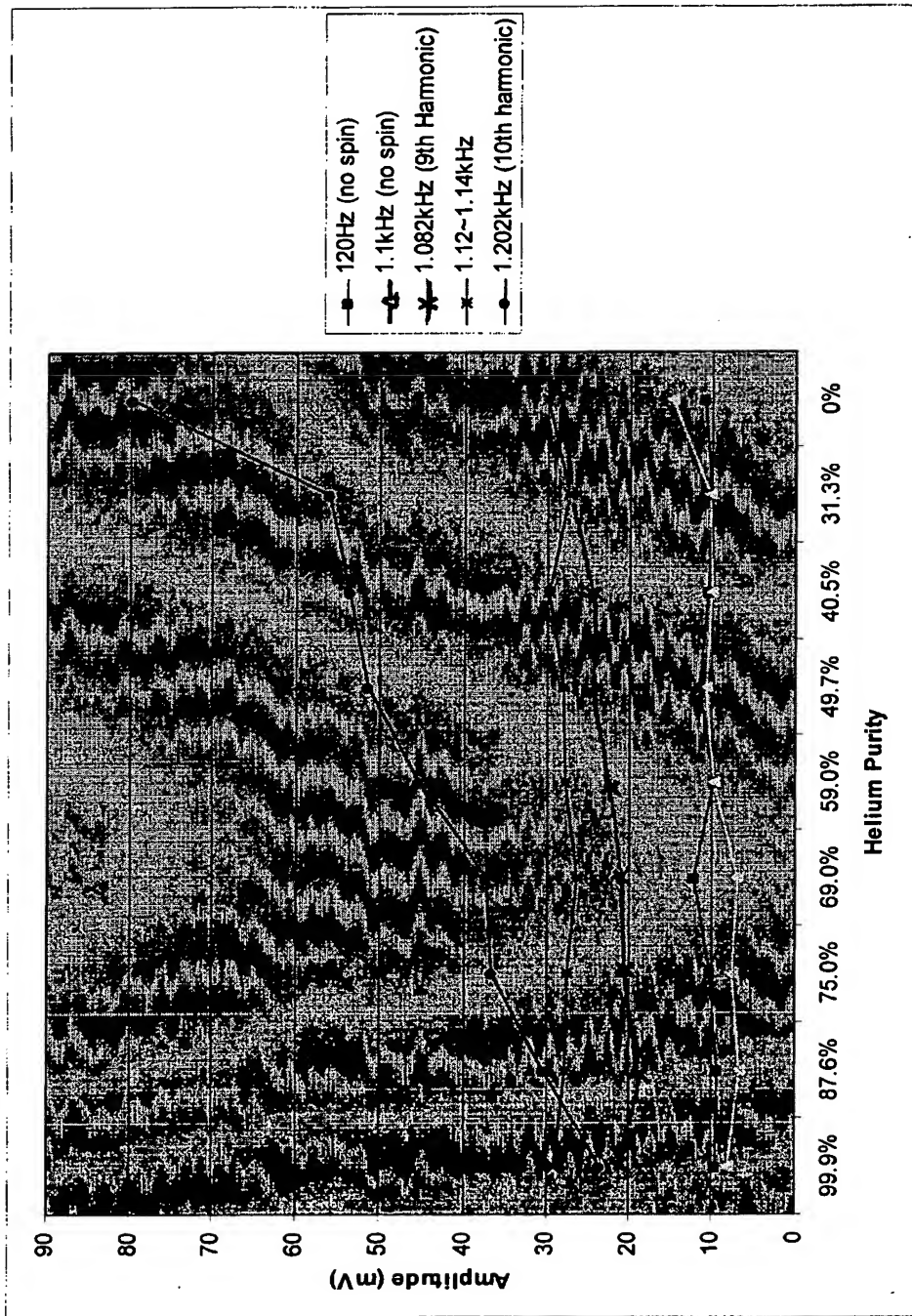
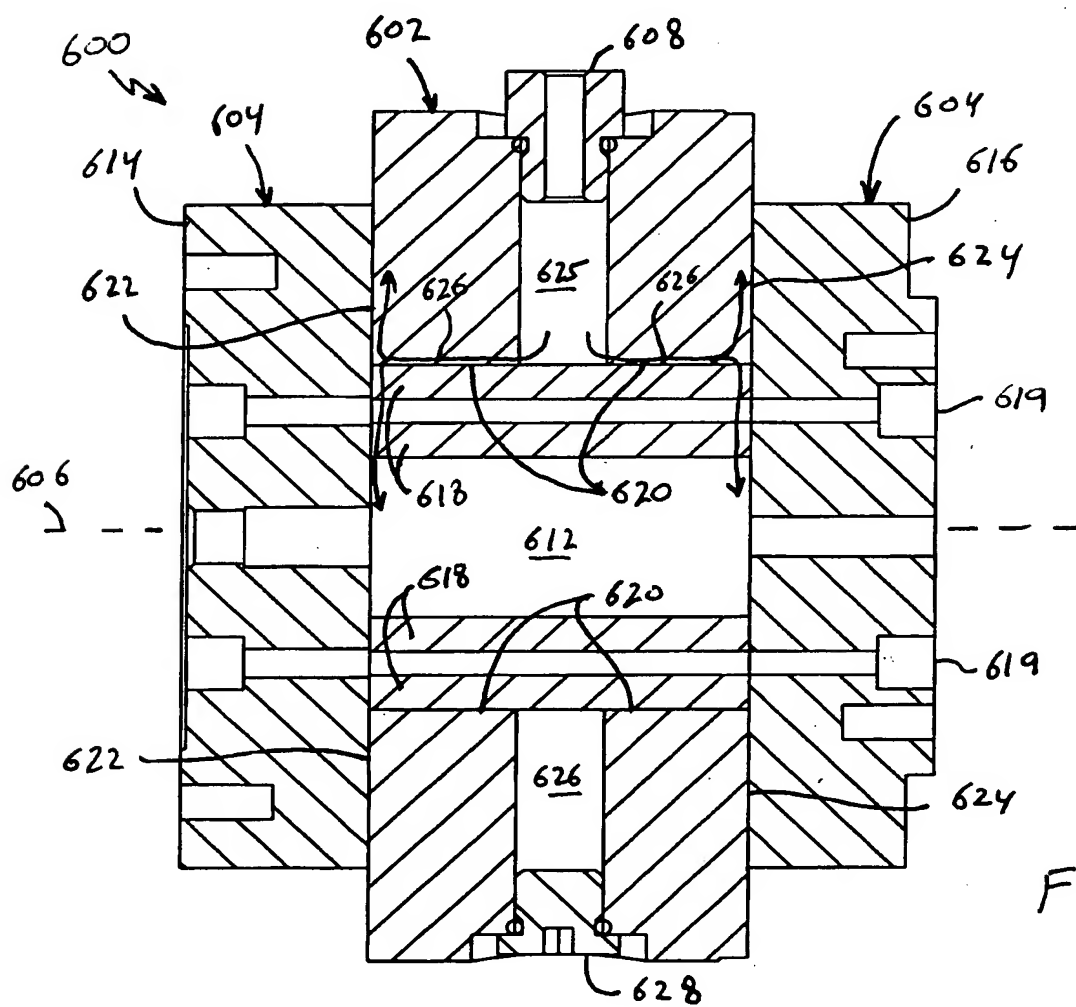
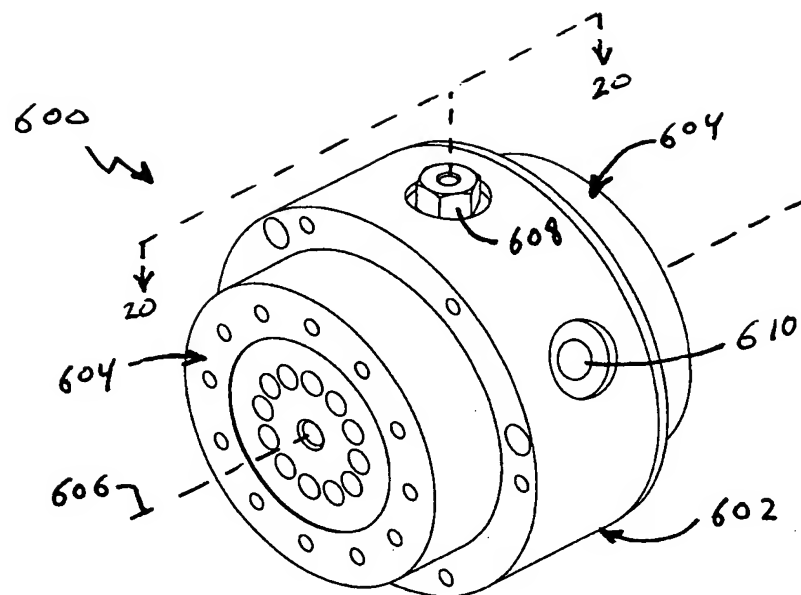


FIG. 17



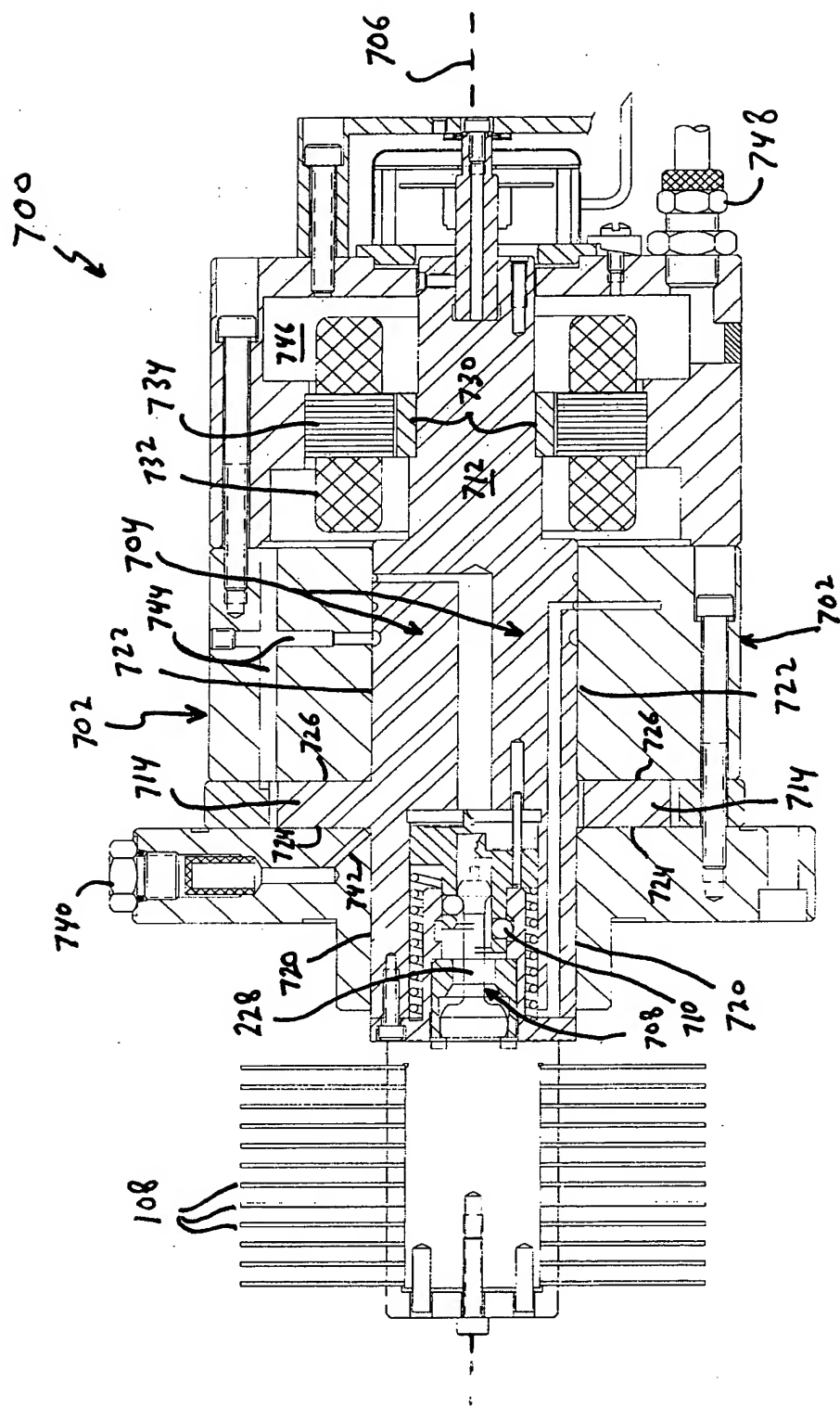


FIG. 21

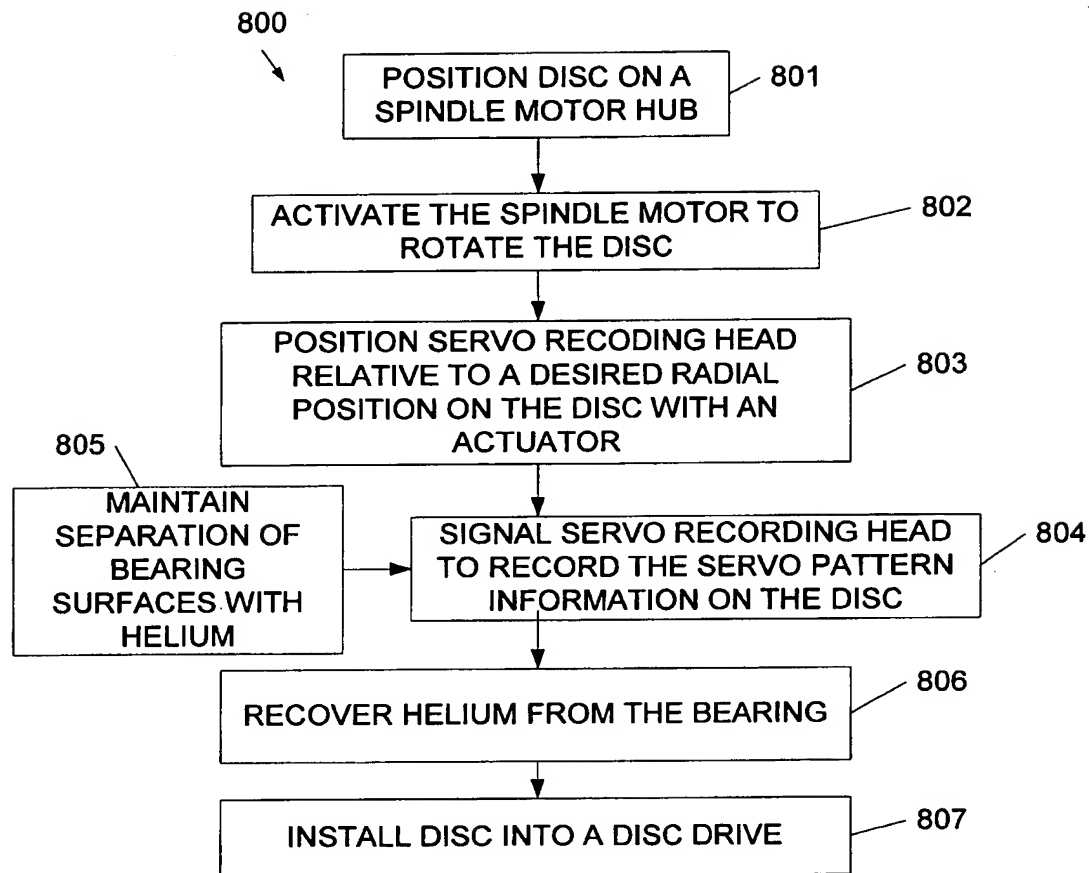


FIG. 22

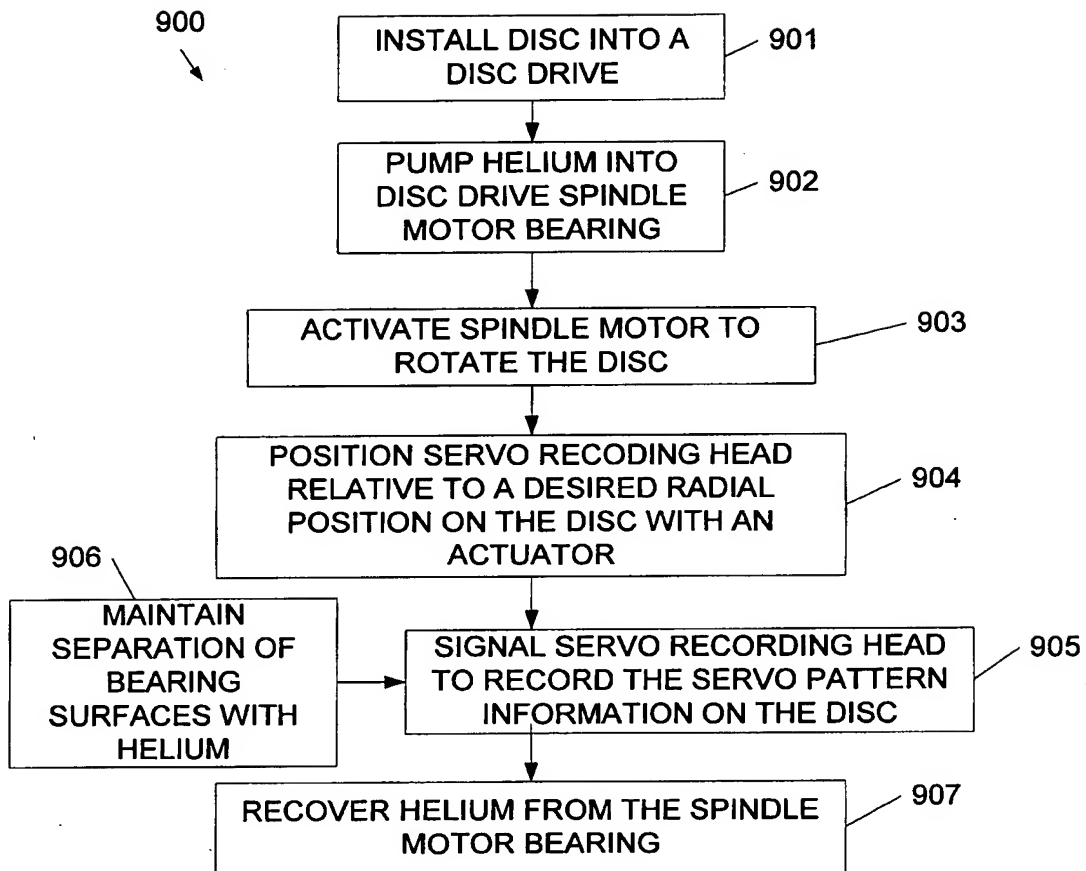


FIG. 23